

Pravin Selvarajah

Currently an OBD Development Engineer at GM looking for part-time web3 opportunities

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Experience

OBD Development Engineer | General Motors of Canada

Nov 2021 - Present

- Leading the OBD algorithm design for the LiB BMS to stay compliant with California Air Resources Board (CARB)
- Managing/Mentoring test engineers & co-op students to maintain team alignment with software testing & verification milestones.

Controls & Diagnostics Test Engineer | General Motors of Canada

Jan 2021 - Nov 2021

- Performed HIL testing on new software for LIB electronic control module to validate diagnostic monitors functionality.
- Developed python scripts to automate test cases to reduce testing time by 30%.

Full Stack Developer | FirstScreen

Sept 2020 - Dec 2020

- Developed new features on the frontend of web applications viewed by clients using React.
- Utilized nodeJS and ExpressJS to develop RESTful APIs for the backend.
- Optimized web application code to reduce http mean latency from 916 ms on first build to 20ms.

Product Manager & Software Engineer | Longan Vision

April 2020 - Nov 2020

- Oversaw and collaborated with a team of 6 in creating a body camera live-streaming proof of concept network.
- Designed networking scripts, a responsive web application hosted on AWS, and a working prototype.

Embedded Software and Controls Engineering Intern | General Motors of Canada

May 2018 - Aug 2019

- Pioneered an automation method for efficiently running in-vehicle testing for 8 hours a day and increasing efficiency by 200%.
- Stepped up to fill a resource gap in the team by taking on the development and maintenance of vehicle communication simulink/matlab models.

Education

McMaster University

B.S. Mechatronics Engineering

Sept 2015 - April 2020

Skills

Technical:

Python, React, C, Javascript, ExpressJS, NodeJS, MariaDB, SQL, AWS, HTML/CSS, Solidity, Git, Brownie

Projects

BuildSpace

- Build a Web3 App: Minted my own NFT collection
- Build a Web3 App: Solidity + Smart Contracts